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Figure 1a

CAG	GTG	CAG	CTG	GTG	GAG	TCT	GGG	GGA	GGC	GTT	GTG	CAG	CCT	GGA	AGG	
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg	48
1				5					10					15		
TCC	CTG	AGA	CTC	TCC	TGT	GCA	GCC	TCT	GGA	TTC	ACC	TTC	AGT	AGC	TAT	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr	96
			20					25					30			
GAC	ATG	TCT	TGG	GTT	CGC	CAG	GCT	CCG	GGC	AAG	GGT	CTG	GAG	TGG	GTC	
Asp	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	144
		35					40					45				
GCA	AAA	GTT	AGT	AGT	GGT	GGT	GGT	AGC	ACC	TAC	TAT	TTA	GAC	ACT	GTG	
Ala	Lys	Val	Ser	Ser	Gly	Gly	Gly	Ser	Thr	Tyr	Tyr	Leu	Asp	Thr	Val	192
	50					55					60					
CAG	GGC	CGA	TTC	ACC	ATC	TCC	AGA	GAC	AAT	AGT	AAG	AAC	ACC	CTA	TAC	
Gln	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	240
	65				70					75					80	
CTG	CAA	ATG	AAC	TCT	CTG	AGA	GCC	GAG	GAC	ACA	GCC	GTG	TAT	TAC	TGT	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	288
				85					90					95		
GCA	AGA	CAT	AAC	TAC	GGC	AGT	TTT	GCT	TAC	TGG	GGC	CAA	GGG	ACT	ACA	
Ala	Arg	His	Asn	Tyr	Gly	Ser	Phe	Ala	Tyr	Trp	Gly	Gln	Gly	Thr	Thr	336
			100					105					110			
GTG	ACT	GTT	TCT	AGT												
Val	Thr	Val	Ser	Ser												351
																115

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Figure 1b

GAG ATT GTG CTA ACT CAG TCT CCA GCC ACC CTG TCT CTC AGC CCA GGA	48
Glu Ile Val Leu Thr 5 Gln Ser Pro Ala Thr 10 Leu Ser Leu Ser Pro 15 Gly	
GAA AGG GCG ACT CTT TCC TGC CAG GCC AGC CAA AGT ATT AGC AAC CAC	96
Glu Arg Ala Thr 20 Leu Ser Cys Gln Ala 25 Ser Gln Ser Ile Ser 30 Asn His	
CTA CAC TGG TAT CAA CAA AGG CCT GGT CAA GCC CCA AGG CTT CTC ATC	144
Leu His Trp 35 Tyr Gln Gln Arg Pro 40 Gly Gln Ala Pro Arg 45 Leu Leu Ile	
AAG TAT CGT TCC CAG TCC ATC TCT GGG ATC CCC GCC AGG TTC AGT GGC	192
Lys Tyr 50 Arg Ser Gln Ser Ile 55 Ser Gly Ile Pro Ala 60 Arg Phe Ser Gly	
AGT GGA TCA GGG ACA GAT TTC ACC CTC ACT ATC TCC AGT CTG GAG CCT	240
Ser Gly Ser Gly Thr 70 Asp Phe Thr Leu Thr Ile 75 Ser Ser Leu Glu Pro 80	
GAA GAT TTT GCA GTC TAT TAC TGT CAA CAG AGT GGC AGC TGG CCT CAC	288
Glu Asp Phe Ala Val 85 Tyr Tyr Cys Gln Gln 90 Ser Gly Ser Trp Pro His 95	
ACG TTC GGA GGG GGG ACC AAG GTG GAA ATT AAG	321
Thr Phe Gly Gly Gly Thr 100 Lys Val 105 Glu Ile Lys	

[illegible]

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Figure 2a

GAA GTG CAG CTG GTG GAG TCT GGG GGA GGC TTA GTG AAG CCT GGA AGG Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Arg 1 5 10 15 48
TCC CTG AGA CTC TCC TGT GCA GCC TCT GGA TTC GCT TTC AGT AGC TAT Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ala Phe Ser Ser Tyr 20 25 30 96
GAC ATG TCT TGG GTT CGC CAG ATT CCG GAG AAG AGG CTG GAG TGG GTC Asp Met Ser Trp Val Arg Gln Ile Pro Glu Lys Arg Leu Glu Trp Val 35 40 45 144
GCA AAA GTT AGT AGT GGT GGT GGT AGC ACC TAC TAT TTA GAC ACT GTG Ala Lys Val Ser Ser Gly Gly Gly Ser Thr Tyr Tyr Leu Asp Thr Val 50 55 60 192
CAG GGC CGA TTC ACC ATC TCC AGA GAC AAT GCC AAG AAC ACC CTA TAC Gln Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr 65 70 75 80 240
CTG CAA ATG AGC AGT CTG AAC TCT GAG GAC ACA GCC ATG TAT TAC TGT Leu Gln Met Ser Ser Leu Asn Ser Glu Asp Thr Ala Met Tyr Tyr Cys 85 90 95 288
GCA AGA CAT AAC TAC GGC AGT TTT GCT TAC TGG GGC CAA GGG ACT CTG Ala Arg His Asn Tyr Gly Ser Phe Ala Tyr Trp Gly Gln Gly Thr Leu 100 105 110 336
GTC ACT GTC TCT GCA Val Thr Val Ser Ala 115 351

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Figure 2b

GAT ATT GTG CTA ACT CAG TCT CCA GCC ACC CTG TCT GTG ACA CCA GGA Asp Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Val Thr Pro Gly 1 5 10 15 48
GAT AGC GTC AGT CTT TCC TGC CAG GCC AGC CAA AGT ATT AGC AAC CAC Asp Ser Val Ser Leu Ser Cys Gln Ala Ser Gln Ser Ile Ser Asn His 20 25 30 96
CTA CAC TGG TAT CAA CAA AAA TCA CAT GAG TCT CCA AGG CTT CTC ATC Leu His Trp Tyr Gln Gln Lys Ser His Glu Ser Pro Arg Leu Leu Ile 35 40 45 144
AAG TAT CGT TCC CAG TCC ATC TCT GGG ATC CCC TCC AGG TTC AGT GGC Lys Tyr Arg Ser Gln Ser Ile Ser Gly Ile Pro Ser Arg Phe Ser Gly 50 55 60 192
AGT GGA TCA GGG ACA GAT TTC GCT CTC AGT ATC AAC AGT GTG GAG ACT Ser Gly Ser Gly Thr Asp Phe Ala Leu Ser Ile Asn Ser Val Glu Thr 65 70 75 80 240
GAA GAT TTT GGA ATG TAT TTC TGT CAA CAG AGT GGC AGC TGG CCT CAC Glu Asp Phe Gly Met Tyr Phe Cys Gln Gln Ser Gly Ser Trp Pro His 85 90 95 288
ACG TTC GGA GGG GGG ACC AAG CTG GAA ATT AAG Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys 100 105 321

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# LM609 Competition Assay

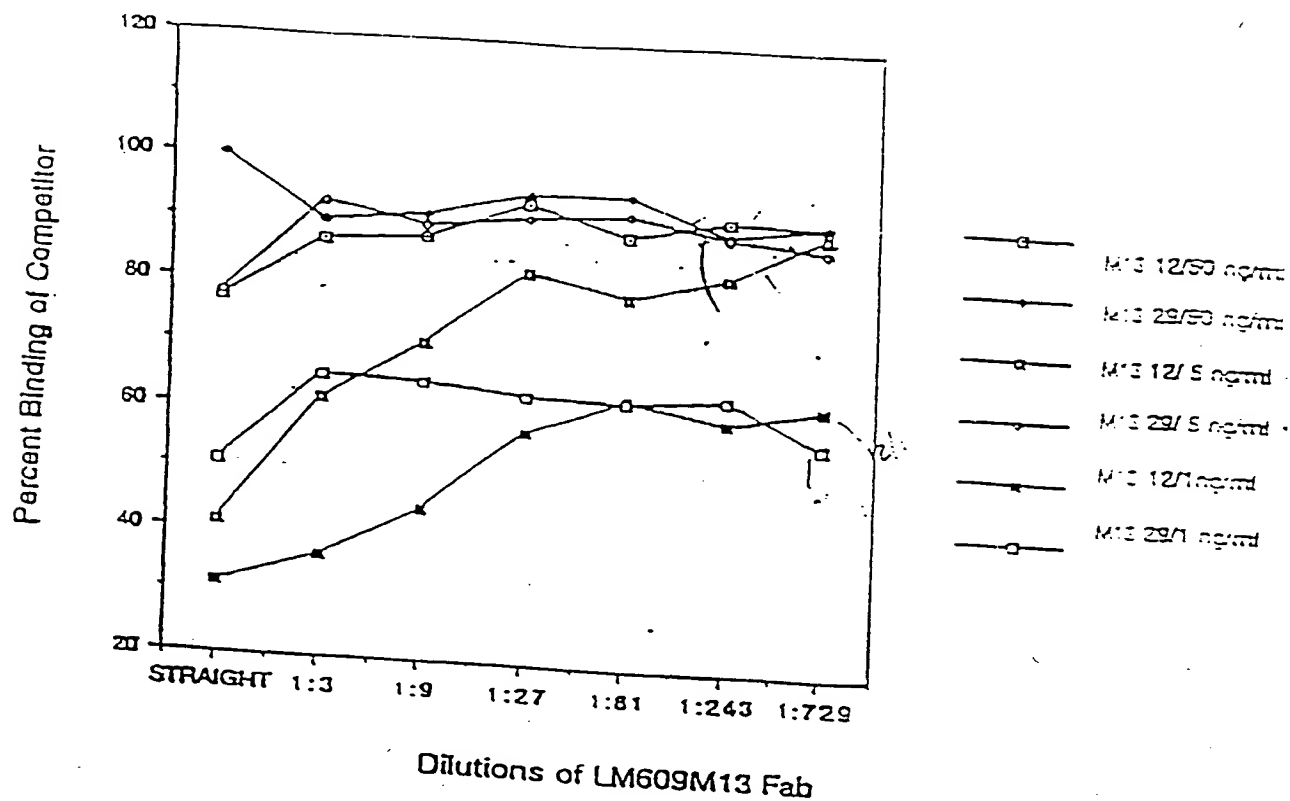


Figure 3

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Figure 4A

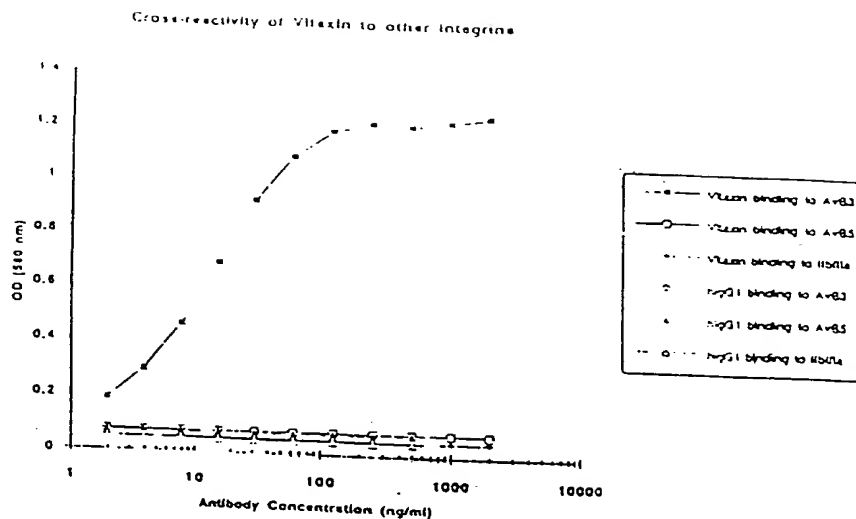


Figure 4B

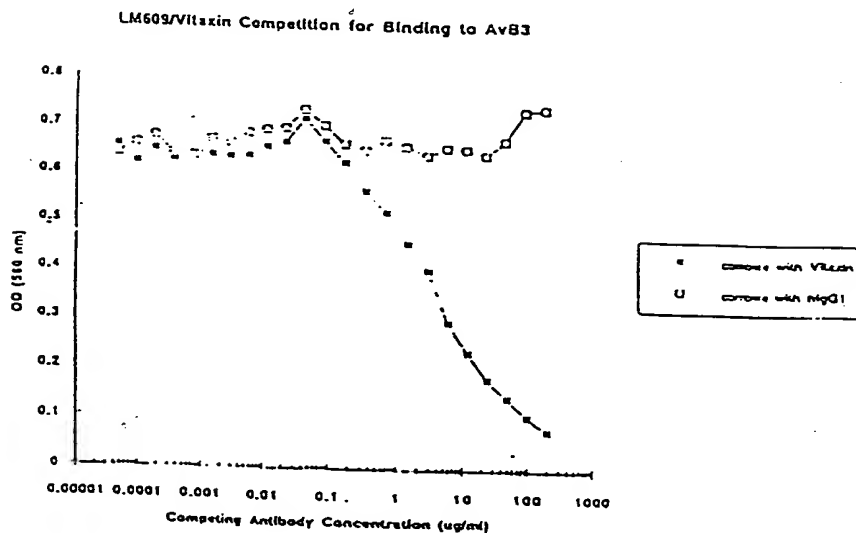
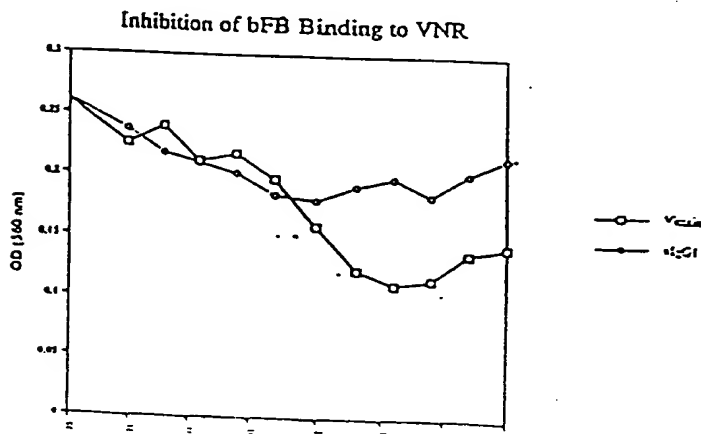


Figure 4C



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Figure 5A

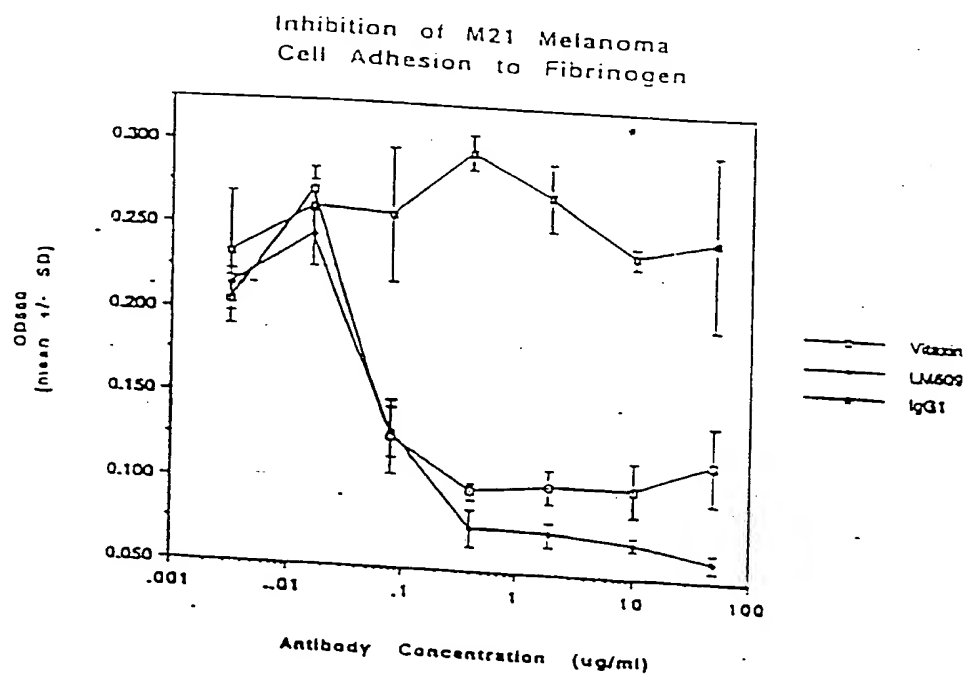
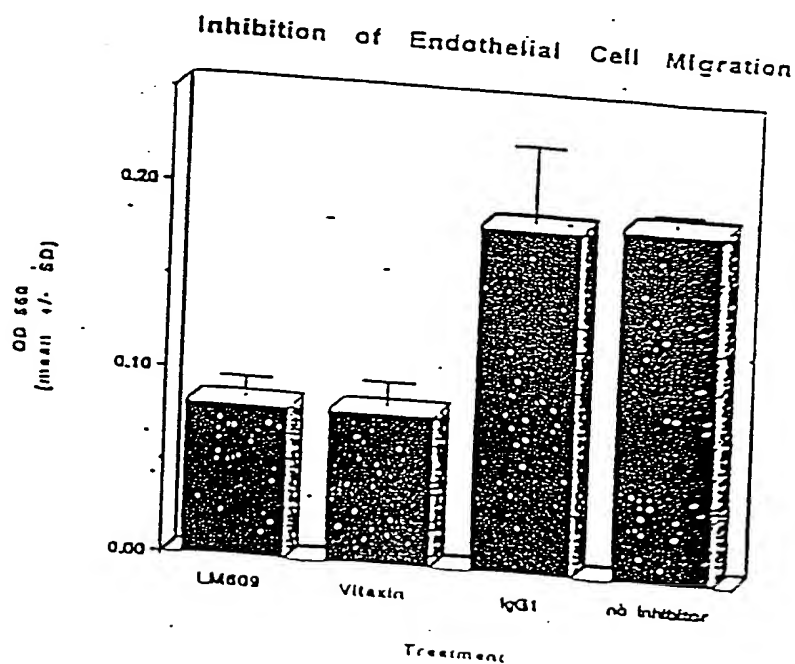


Figure 5B



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Figure 6A

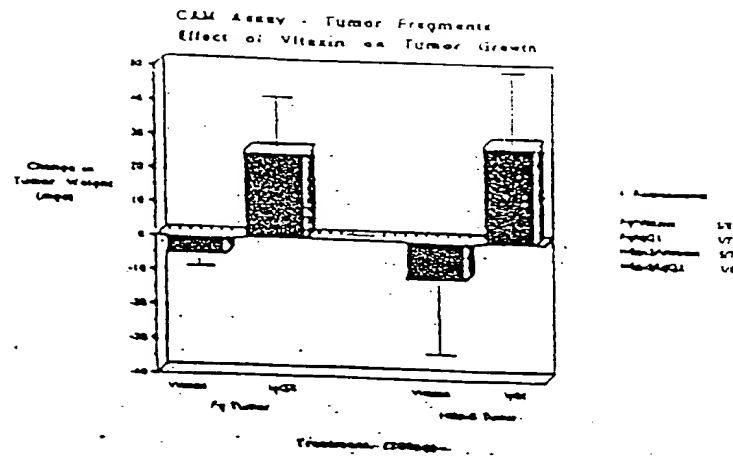


Figure 6B

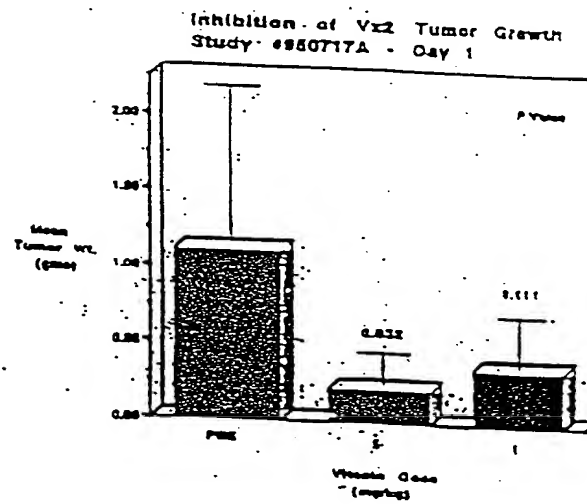
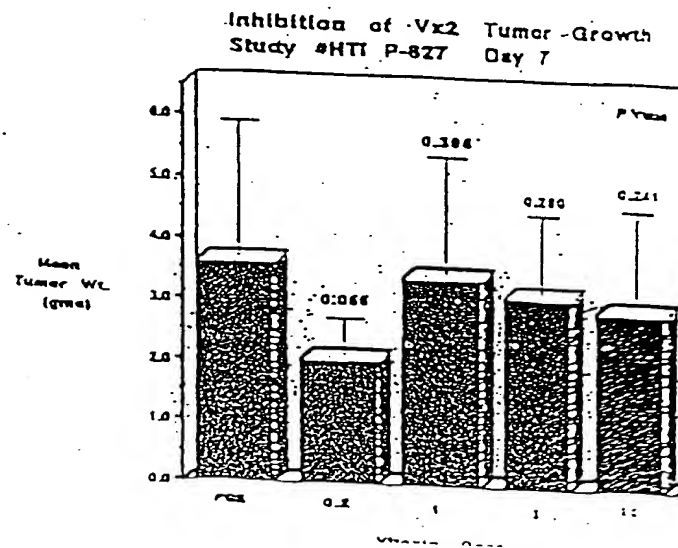


Figure 6C





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Figure 7

GAG	ATT	GTG	CTA	ACT	CAG	TCT	CCA	GCC	ACC	CTG	TCT	CTC	AGC	CCA	GGA	48
Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Leu	Ser	Pro	Gly	
1				5					10					15		
GAA	AGG	GCG	ACT	CTT	TCC	TGC	CAG	GCC	AGC	CAA	AGT	ATT	AGC	AAC	CAC	96
Glu	Arg	Ala	Thr	Leu	Ser	Cys	Gln	Ala	Ser	Gln	Ser	Ile	Ser	Asn	His	
			20					25					30			
CTA	CAC	TGG	TAT	CAA	CAA	AGG	CCT	GGT	CAA	GCC	CCA	AGG	CTT	CTC	ATC	144
Leu	His	Trp	Tyr	Gln	Gln	Arg	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	Ile	
		35					40					45				
CGT/ATG	TAT	CGT	TCC	CAG	TCC	ATC	TCT	GGG	ATC	CCC	GCC	AGG	TTC	AGT	GGC	192
Arg/Met	Tyr	Arg	Ser	Gln	Ser	Ile	Ser	Gly	Ile	Pro	Ala	Arg	Phe	Ser	Gly	
	50					55				60						
AGT	GGA	TCA	GGG	ACA	GAT	TTC	ACC	CTC	ACT	ATC	TCC	AGT	CTG	GAG	CCT	240
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Glu	Pro	
65				70					75					80		
GAA	GAT	TTT	GCA	GTC	TAT	TAC	TGT	CAA	CAG	AGT	GGC	AGC	TGG	CCT	CAC	288
Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Ser	Gly	Ser	Trp	Pro	His	
			85					90						95		
ACG	TTC	GGA	GGG	GGG	ACC	AAG	GTG	GAA	ATT	AAG						321
Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys						
			100					105								

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P-1X 2961  
HOUSE AND PLANT

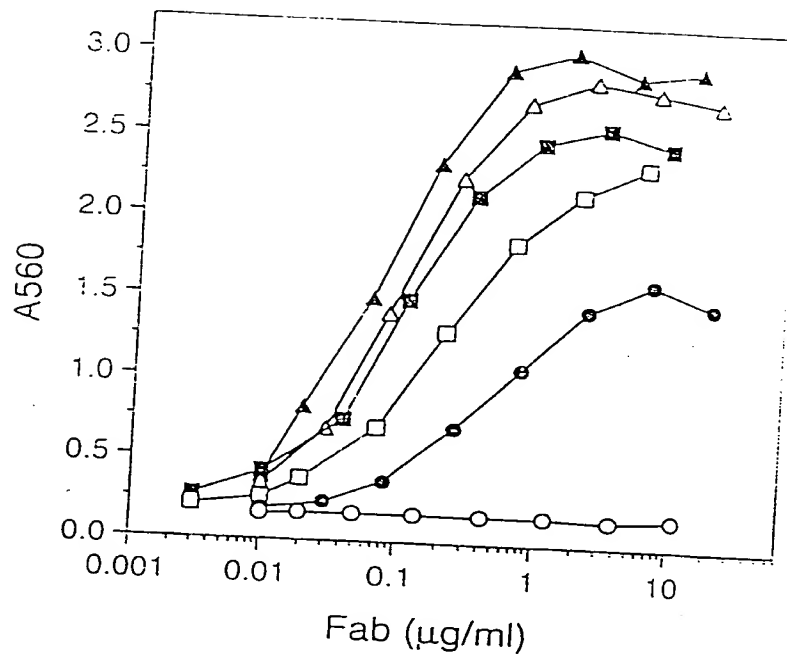


FIGURE 8

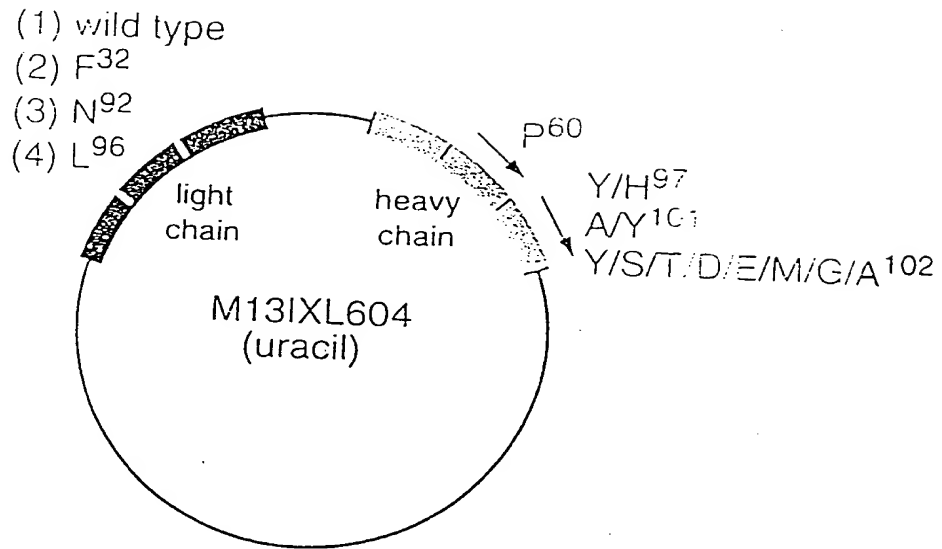


FIGURE 9

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P-IX 2965  
HUSE AND GLADY

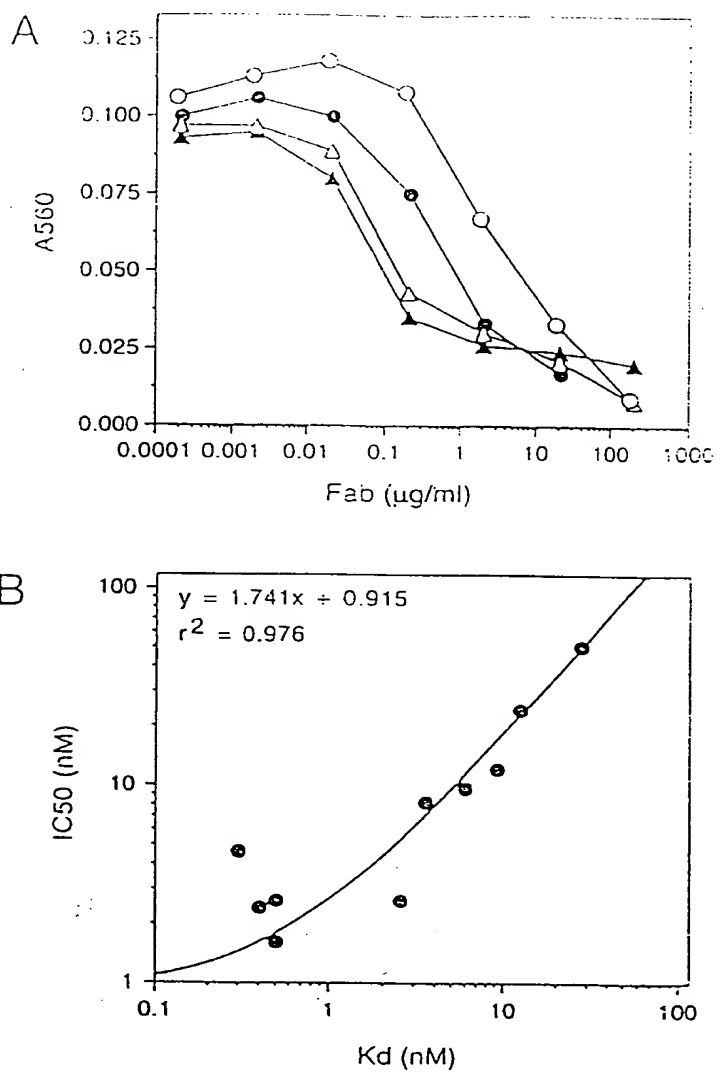


FIGURE 10

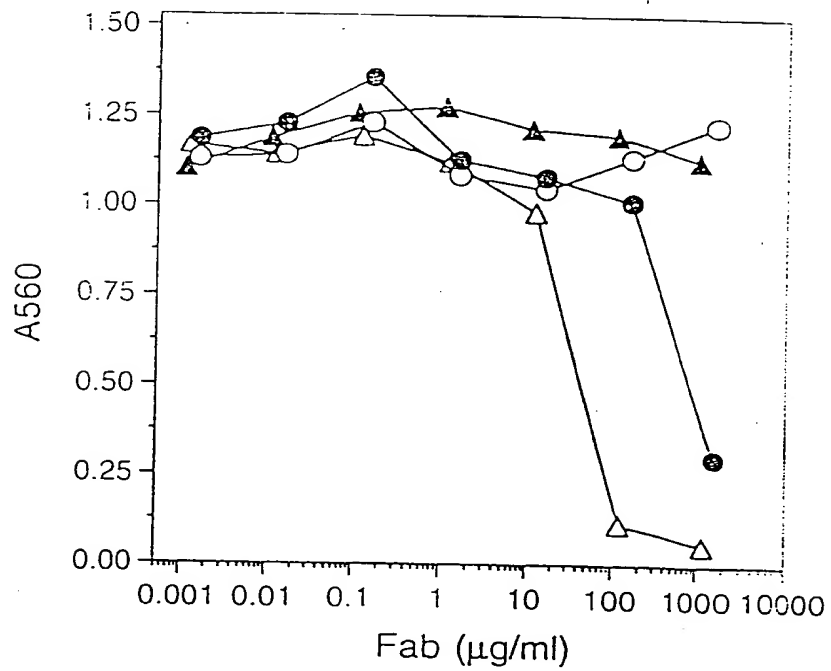


FIGURE 11